

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P950527

Luminaire Tested: **GALN-SB4D-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28199 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

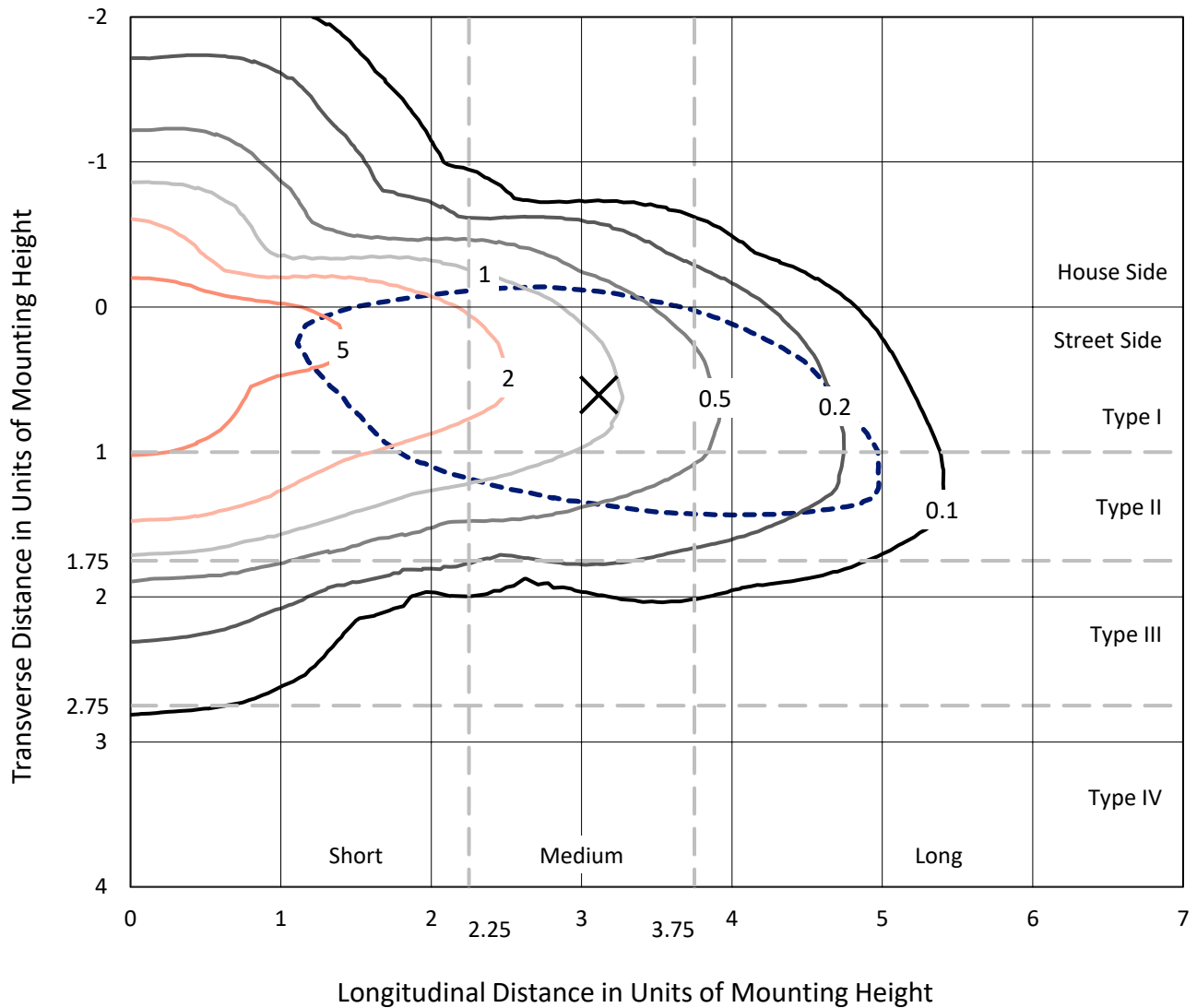
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

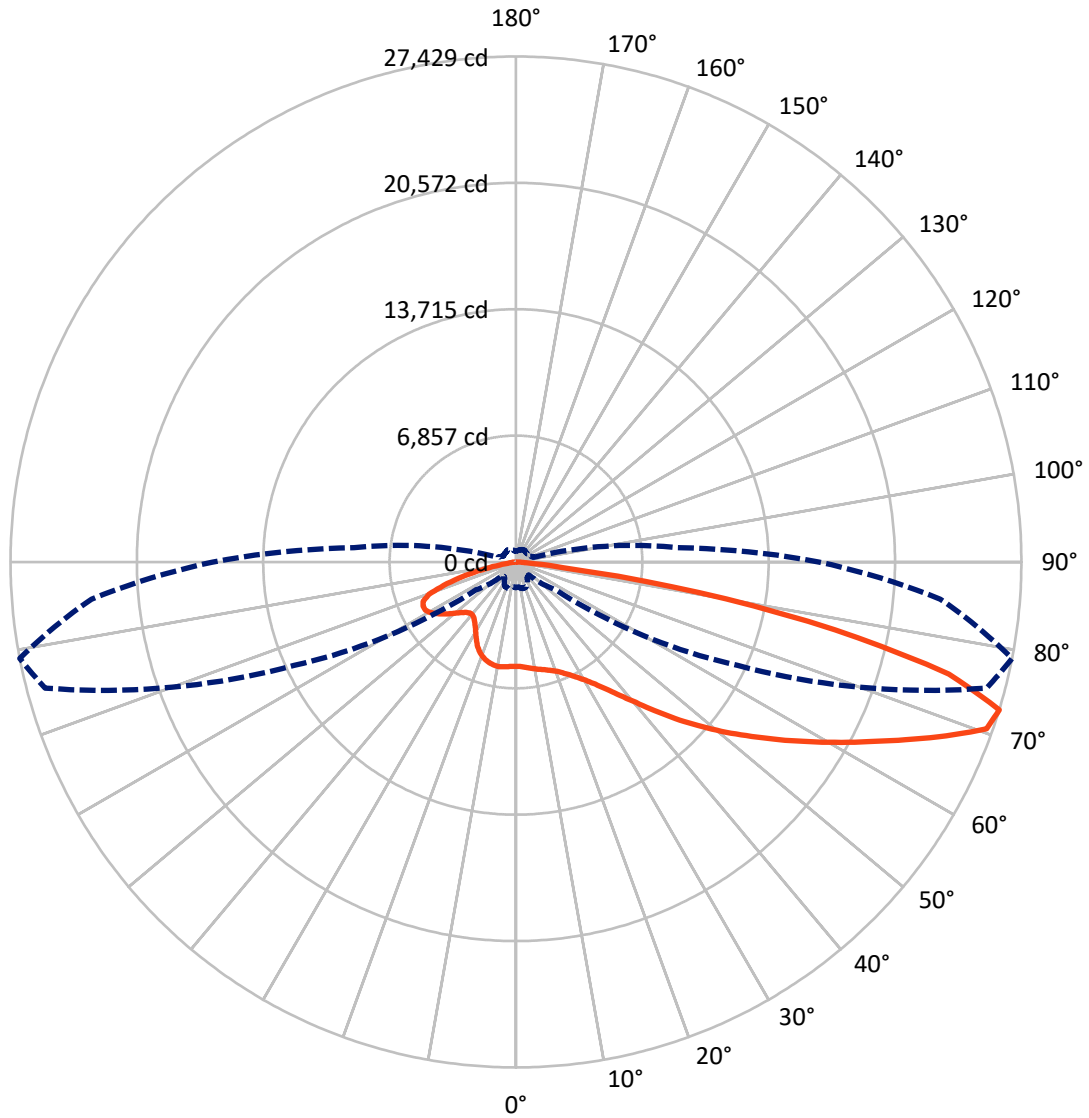
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6205.3 | 0.0 | 6205.3 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 21993.7 | 0.0 | 21993.7 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 28199.0 | 0.0 | 28199.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 513.8 | 1.8 |
| 10°-20° | 1343.4 | 4.8 |
| 20°-30° | 2167.7 | 7.7 |
| 30°-40° | 3253.4 | 11.5 |
| 40°-50° | 4615.1 | 16.4 |
| 50°-60° | 5828.3 | 20.7 |
| 60°-70° | 5919.4 | 21.0 |
| 70°-80° | 4034.4 | 14.3 |
| 80°-90° | 523.4 | 1.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 28199.0 | 100.0 |
| 0°-180° | 28199.0 | 100.0 |

Coefficient of Utilization



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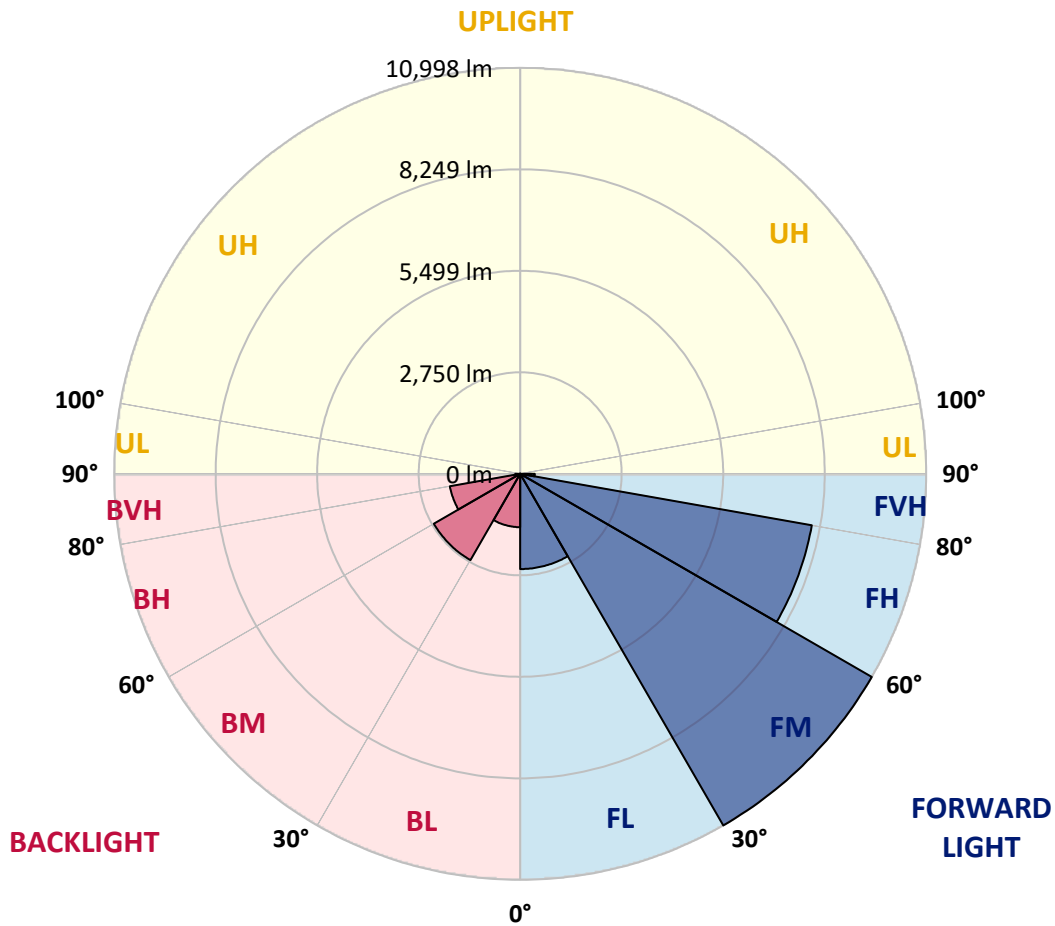
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2579.5 | 9.1 | | | |
| FM (30°-60°) | 10998.2 | 39.0 | | | |
| FH (60°-80°) | 8021.7 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 394.3 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1445.4 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2698.7 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 1932.1 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 129.1 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 |
| 2.5° | 5663.7 | 5636.8 | 5653.2 | 5647.3 | 5654.7 | 5663.7 | 5666.6 | 5671.1 | 5686.0 | 5684.5 |
| 5° | 5651.7 | 5624.9 | 5647.3 | 5639.8 | 5659.2 | 5680.1 | 5698.0 | 5714.4 | 5738.2 | 5748.7 |
| 7.5° | 5626.4 | 5608.5 | 5630.8 | 5653.2 | 5689.0 | 5720.3 | 5745.7 | 5783.0 | 5817.3 | 5823.3 |
| 10° | 5478.7 | 5465.3 | 5517.5 | 5575.7 | 5674.1 | 5759.1 | 5814.3 | 5857.6 | 5894.9 | 5900.8 |
| 12.5° | 5325.1 | 5308.7 | 5366.8 | 5445.9 | 5605.5 | 5759.1 | 5875.5 | 5932.2 | 5965.0 | 5984.4 |
| 15° | 5299.7 | 5286.3 | 5319.1 | 5387.7 | 5520.5 | 5718.9 | 5917.2 | 6021.7 | 6050.0 | 6072.4 |
| 17.5° | 5422.0 | 5396.7 | 5410.1 | 5434.0 | 5511.5 | 5681.6 | 5950.1 | 6123.1 | 6166.3 | 6190.2 |
| 20° | 5705.4 | 5669.6 | 5648.7 | 5601.0 | 5587.6 | 5687.5 | 5947.1 | 6245.4 | 6302.1 | 6331.9 |
| 22.5° | 6082.8 | 6058.9 | 6014.2 | 5893.4 | 5762.1 | 5760.6 | 6003.8 | 6402.0 | 6507.9 | 6536.3 |
| 25° | 6539.2 | 6503.4 | 6446.8 | 6282.7 | 6030.6 | 5905.3 | 6099.2 | 6601.9 | 6779.4 | 6786.9 |
| 27.5° | 7064.3 | 7010.6 | 6933.0 | 6716.7 | 6376.7 | 6132.0 | 6245.4 | 6831.6 | 7091.1 | 7088.2 |
| 30° | 7617.7 | 7564.0 | 7481.9 | 7219.4 | 6791.3 | 6437.8 | 6448.3 | 7079.2 | 7461.1 | 7444.7 |
| 32.5° | 8021.9 | 7981.6 | 7965.2 | 7762.4 | 7268.6 | 6798.8 | 6680.9 | 7353.7 | 7917.5 | 7902.6 |
| 35° | 8332.2 | 8280.0 | 8299.3 | 8196.4 | 7789.2 | 7203.0 | 6965.8 | 7680.3 | 8472.4 | 8470.9 |
| 37.5° | 8639.4 | 8593.2 | 8609.6 | 8541.0 | 8271.0 | 7716.1 | 7313.4 | 8080.1 | 9160.0 | 9192.8 |
| 40° | 8919.9 | 8870.6 | 8936.3 | 8872.1 | 8645.4 | 8262.1 | 7708.7 | 8532.0 | 9956.5 | 10019.2 |
| 42.5° | 9088.4 | 9049.6 | 9158.5 | 9160.0 | 8970.6 | 8723.0 | 8142.7 | 9030.2 | 10878.4 | 11018.6 |
| 45° | 9146.6 | 9133.2 | 9297.2 | 9331.5 | 9258.5 | 8990.0 | 8533.5 | 9573.2 | 11871.8 | 12122.4 |
| 47.5° | 9083.9 | 9058.6 | 9285.3 | 9412.1 | 9470.3 | 9115.3 | 8857.2 | 10160.9 | 12886.1 | 13253.0 |
| 50° | 8767.7 | 8718.5 | 9055.6 | 9322.6 | 9529.9 | 9197.3 | 9183.9 | 10839.6 | 14039.1 | 14440.3 |
| 52.5° | 8199.4 | 8162.1 | 8545.5 | 9009.4 | 9398.7 | 9237.6 | 9550.8 | 11580.9 | 15133.9 | 15653.0 |
| 55° | 7473.0 | 7423.8 | 7845.9 | 8451.5 | 9072.0 | 9224.2 | 9917.8 | 12410.2 | 16425.7 | 16952.2 |
| 57.5° | 6321.5 | 6223.0 | 6757.0 | 7473.0 | 8539.5 | 9207.7 | 10299.6 | 13235.1 | 17738.3 | 18369.2 |
| 60° | 4641.9 | 4495.7 | 5150.5 | 5999.3 | 7498.4 | 9048.1 | 10772.4 | 14159.9 | 19313.4 | 19881.7 |
| 62.5° | 2702.8 | 2617.8 | 3045.9 | 3837.9 | 5651.7 | 8108.4 | 11038.0 | 15235.4 | 20861.7 | 21458.4 |
| 65° | 2098.7 | 2074.8 | 2112.1 | 2173.3 | 3145.8 | 6070.9 | 10219.1 | 16284.0 | 22830.7 | 23248.3 |
| 67.5° | 1919.7 | 1901.8 | 1918.2 | 1803.4 | 1596.0 | 3381.5 | 8084.6 | 16549.5 | 24939.8 | 25193.4 |
| 70° | 1706.4 | 1685.5 | 1739.2 | 1640.8 | 1255.9 | 1537.9 | 5223.6 | 15585.9 | 26617.9 | 27093.7 |
| 72.5° | 1390.2 | 1366.3 | 1491.6 | 1446.9 | 1057.6 | 987.4 | 2623.8 | 13296.3 | 26441.9 | 27429.3 |
| 75° | 1068.0 | 1054.6 | 1203.7 | 1241.0 | 862.2 | 777.1 | 1258.9 | 9883.4 | 23269.2 | 24264.1 |
| 77.5° | 829.3 | 818.9 | 895.0 | 1030.7 | 695.1 | 602.6 | 774.1 | 6269.3 | 17535.4 | 17710.0 |
| 80° | 622.0 | 592.2 | 662.3 | 798.0 | 541.5 | 440.0 | 525.0 | 3655.9 | 11084.2 | 10047.5 |
| 82.5° | 389.3 | 374.4 | 432.6 | 532.5 | 381.9 | 302.8 | 341.6 | 2019.6 | 4442.0 | 2616.3 |
| 85° | 222.3 | 216.3 | 235.7 | 304.3 | 207.3 | 174.5 | 195.4 | 892.0 | 811.4 | 557.9 |
| 87.5° | 89.5 | 86.5 | 107.4 | 135.7 | 76.1 | 64.1 | 68.6 | 214.8 | 179.0 | 165.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5660.7 | 0° | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 | 5660.7 |
| 5683.1 | 2.5° | 5677.1 | 5677.1 | 5656.2 | 5623.4 | 5586.1 | 5562.2 | 5523.5 | 5513.0 | 5472.7 | 5460.8 |
| 5733.8 | 5° | 5745.7 | 5733.8 | 5669.6 | 5577.2 | 5450.4 | 5334.0 | 5205.7 | 5125.2 | 5011.8 | 4971.6 |
| 5833.7 | 7.5° | 5832.2 | 5799.4 | 5689.0 | 5486.2 | 5220.7 | 4959.6 | 4688.1 | 4482.3 | 4285.4 | 4215.3 |
| 5915.7 | 10° | 5911.3 | 5865.0 | 5677.1 | 5322.1 | 4862.7 | 4410.7 | 3978.1 | 3675.3 | 3445.6 | 3351.7 |
| 6006.7 | 12.5° | 5990.3 | 5905.3 | 5598.0 | 5049.1 | 4354.0 | 3741.0 | 3280.1 | 3044.4 | 2902.7 | 2789.3 |
| 6081.3 | 15° | 6064.9 | 5945.6 | 5475.7 | 4683.7 | 3796.2 | 3174.2 | 2834.1 | 2646.1 | 2532.8 | 2458.2 |
| 6190.2 | 17.5° | 6151.4 | 5979.9 | 5292.3 | 4219.8 | 3265.1 | 2781.9 | 2504.4 | 2391.1 | 2368.7 | 2359.7 |
| 6339.4 | 20° | 6272.2 | 6011.2 | 5050.6 | 3700.7 | 2874.3 | 2468.6 | 2325.4 | 2315.0 | 2313.5 | 2309.0 |
| 6518.4 | 22.5° | 6402.0 | 6048.5 | 4731.4 | 3229.3 | 2541.7 | 2273.2 | 2247.9 | 2227.0 | 2213.6 | 2212.1 |
| 6734.6 | 25° | 6555.7 | 6060.4 | 4331.7 | 2843.0 | 2258.3 | 2180.7 | 2150.9 | 2119.6 | 2110.6 | 2110.6 |
| 6980.8 | 27.5° | 6704.8 | 6020.2 | 3866.3 | 2507.4 | 2098.7 | 2095.7 | 2056.9 | 2046.5 | 2045.0 | 2049.5 |
| 7261.2 | 30° | 6854.0 | 5944.1 | 3403.9 | 2197.1 | 2006.2 | 2006.2 | 1992.8 | 2000.3 | 2006.2 | 2021.1 |
| 7646.0 | 32.5° | 7055.3 | 5863.5 | 3017.5 | 1967.4 | 1925.7 | 1910.8 | 1924.2 | 1939.1 | 1945.1 | 1964.5 |
| 8151.7 | 35° | 7350.7 | 5806.9 | 2710.3 | 1842.1 | 1842.1 | 1822.8 | 1830.2 | 1827.2 | 1813.8 | 1804.9 |
| 8763.2 | 37.5° | 7741.5 | 5803.9 | 2456.7 | 1784.0 | 1772.0 | 1769.1 | 1770.5 | 1751.2 | 1699.0 | 1636.3 |
| 9503.1 | 40° | 8211.3 | 5884.4 | 2261.3 | 1743.7 | 1734.7 | 1752.6 | 1743.7 | 1691.5 | 1548.3 | 1439.4 |
| 10413.0 | 42.5° | 8842.3 | 6114.1 | 2136.0 | 1694.5 | 1721.3 | 1743.7 | 1707.9 | 1527.4 | 1430.5 | 1357.4 |
| 11449.6 | 45° | 9585.1 | 6487.0 | 2071.9 | 1642.3 | 1696.0 | 1722.8 | 1549.8 | 1470.7 | 1393.2 | 1305.2 |
| 12580.3 | 47.5° | 10426.4 | 6956.9 | 2056.9 | 1593.0 | 1639.3 | 1655.7 | 1482.7 | 1446.9 | 1358.9 | 1263.4 |
| 13716.9 | 50° | 11342.2 | 7513.3 | 2097.2 | 1534.9 | 1557.2 | 1500.6 | 1460.3 | 1427.5 | 1336.5 | 1242.5 |
| 14881.8 | 52.5° | 12289.4 | 8126.3 | 2177.8 | 1455.8 | 1475.2 | 1412.6 | 1451.3 | 1423.0 | 1323.1 | 1196.3 |
| 16085.6 | 55° | 13220.2 | 8743.9 | 2255.3 | 1363.3 | 1391.7 | 1333.5 | 1426.0 | 1405.1 | 1261.9 | 1118.7 |
| 17369.9 | 57.5° | 14165.9 | 9358.4 | 2331.4 | 1281.3 | 1311.1 | 1257.4 | 1385.7 | 1357.4 | 1193.3 | 1047.1 |
| 18772.0 | 60° | 15148.8 | 9955.0 | 2367.2 | 1202.2 | 1223.1 | 1187.3 | 1324.6 | 1275.3 | 1115.7 | 974.0 |
| 20150.2 | 62.5° | 16069.2 | 10451.8 | 2309.0 | 1123.2 | 1136.6 | 1121.7 | 1244.0 | 1178.4 | 1038.2 | 892.0 |
| 21586.7 | 65° | 16992.5 | 10747.1 | 2130.0 | 1045.6 | 1048.6 | 1041.1 | 1130.6 | 1074.0 | 947.2 | 820.4 |
| 22844.1 | 67.5° | 17829.3 | 10912.7 | 1845.1 | 962.1 | 954.6 | 951.7 | 1024.7 | 960.6 | 859.2 | 748.8 |
| 23800.2 | 70° | 18006.8 | 10492.0 | 1409.6 | 863.6 | 863.6 | 856.2 | 908.4 | 842.8 | 762.2 | 672.7 |
| 23115.6 | 72.5° | 16446.6 | 8825.9 | 1000.9 | 751.8 | 763.7 | 748.8 | 792.0 | 736.9 | 663.8 | 604.1 |
| 19922.0 | 75° | 13262.0 | 6472.1 | 727.9 | 636.9 | 657.8 | 632.4 | 672.7 | 633.9 | 571.3 | 569.8 |
| 13728.8 | 77.5° | 9112.3 | 4002.0 | 528.0 | 525.0 | 540.0 | 507.1 | 553.4 | 532.5 | 475.8 | 450.5 |
| 5975.4 | 80° | 3888.6 | 1596.0 | 384.8 | 405.7 | 405.7 | 375.9 | 429.6 | 435.6 | 386.3 | 374.4 |
| 1153.0 | 82.5° | 774.1 | 453.5 | 270.0 | 278.9 | 262.5 | 253.6 | 304.3 | 337.1 | 465.4 | 517.6 |
| 347.5 | 85° | 232.7 | 167.1 | 162.6 | 152.1 | 134.2 | 135.7 | 179.0 | 338.6 | 417.7 | 238.7 |
| 114.9 | 87.5° | 64.1 | 41.8 | 43.3 | 34.3 | 28.3 | 37.3 | 61.2 | 256.6 | 140.2 | 59.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| <u>180°</u> |
|-------------|
| 5660.7 |
| 5480.2 |
| 5001.4 |
| 4224.3 |
| 3372.5 |
| 2826.6 |
| 2471.6 |
| 2365.7 |
| 2323.9 |
| 2228.5 |
| 2119.6 |
| 2061.4 |
| 2031.6 |
| 1980.9 |
| 1825.7 |
| 1637.8 |
| 1436.4 |
| 1354.4 |
| 1299.2 |
| 1255.9 |
| 1232.1 |
| 1187.3 |
| 1111.3 |
| 1044.1 |
| 969.6 |
| 890.5 |
| 811.4 |
| 739.8 |
| 669.7 |
| 586.2 |
| 513.1 |
| 422.1 |
| 374.4 |
| 519.1 |
| 205.8 |
| 50.7 |
| 0.0 |

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